In the Claims

Please amend the claims as follows.

Please cancel claims 1-19 in their entirety and without prejudice and add the following new claims.

Claims 1-19 (Canceled).

Claim 20. (New). A method for inducing the re-expression of a previously silenced endogenous gene encoding human sodium/iodide symporter in a human thyroid carcinoma cell comprising administering to the cell a compound selected from the group consisting of 5-azacytodine, sodium butyrate, dimethylsulfoxide, adenosyl-1,8-diamino-3-thio-octane, and phenylacetate.

Claim 21. (New). The method of claim 20 wherein the thyroid carcinoma cell is a thyroid typical papillary carcinoma cell or a follicular carcinoma.

Claim 22. (New). The method of claim 20 wherein re-expression is effected by demethylating the previously silenced endogenous gene or by inhibiting methylation in the cell.

Claim 23. (New). A method for restoring iodide transport to a human thyroid carcinoma cell comprising administering 5-azacytodine to the cell in an amount effective to transcriptionally activate the expression of a gene encoding the human sodium/iodide symporter.

Claim 24 (New). A method of restoring iodide transport to a human thyroid carcinoma cell comprising administering difluoromethylornithine or S-adenosyl-1,8-diamino-3-thio-octane

to the cell in an amount effective to transcriptionally activate the expression of a gene encoding the human sodium/iodide symporter.